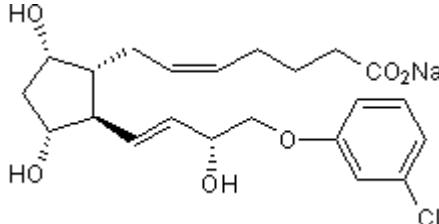


**Certificate of Analysis**[www.tocris.com](http://www.tocris.com)**Product Name:** ( $\pm$ )-Cloprostenol sodium salt**Catalog No.:** 2295**Batch No.:** 1**CAS Number:** 55028-72-3**EC Number:** 259-439-3**IUPAC Name:** (5Z)-*rel*-7-[(1*R*,2*R*,3*R*,5*S*)-2-[(1*E*,3*R*)-4-(3-chlorophenoxy)-3-hydroxy-1-butenyl]-3,5-dihydroxycyclopentyl]-5-heptenoic acid monosodium salt**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C<sub>22</sub>H<sub>28</sub>ClNaO<sub>6</sub>·½H<sub>2</sub>O**Batch Molecular Weight:** 455.91**Physical Appearance:** White solid**Solubility:** water to 20 mM  
ethanol to 100 mM  
DMSO to 100 mM**Storage:** Desiccate at -20°C**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows >98.7% purity**<sup>1</sup>H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 57.96 6.41

Found 57.44 6.24

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-technne.com**

info@bio-technne.com

techsupport@bio-technne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-technne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956

**Product Name:** **(±)-Cloprostenol sodium salt**

CAS Number: 55028-72-3

IUPAC Name: (5Z)-*rel*-7-[(1*R*,2*R*,3*R*,5*S*)-2-[(1*E*,3*R*)-4-(3-chlorophenoxy)-3-hydroxy-1-butenyl]-3,5-dihydroxycyclopentyl]-5-heptenoic acid monosodium salt

**Catalog No.:** 2295

**Batch No.:** 1

EC Number: 259-439-3

**Description:**

Water-soluble prostaglandin F<sub>2α</sub> (PGF<sub>2α</sub>) analog; acts as a potent FP receptor agonist (EC<sub>50</sub> = 0.84 nM). Potently inhibits differentiation of adipocyte precursor cells. Luteolytic agent in vivo.

**Physical and Chemical Properties:**

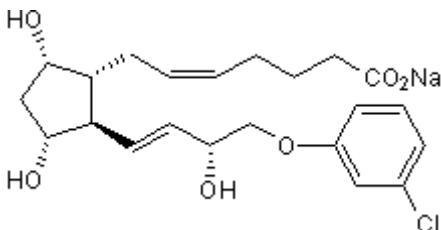
Batch Molecular Formula: C<sub>22</sub>H<sub>28</sub>CINaO<sub>6</sub>.½H<sub>2</sub>O

Batch Molecular Weight: 455.91

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

water to 20 mM  
ethanol to 100 mM  
DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Dukes** *et al* (1974) Potent luteolytic agents related to prostaglandin F<sub>2α</sub>. *Nature* **250** 330. PMID: 4853720.

**Griffin** *et al* (1998) Pharmacological characterization of an FP prostaglandin receptor on rat vascular smooth muscle cells (A7r5) coupled to phosphoinositide turnover and intracellular calcium mobilization. *J.Pharmacol.Exp.Ther.* **286** 411. PMID: 9655886.

**Serrero and Lepak** (2002) Prostaglandin F<sub>2α</sub> receptor (FP receptor) agonists are potent adipose differentiation inhibitors for primary culture of adipocyte precursors in defined medium. *Biochem.Biophys.Res.Comm.* **233** 200.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use